



# **Audiobahn®**

ABD40J

OWNER'S MANUAL



PLEASE READ THIS MANUAL  
BEFORE OPERATING THIS UNIT.  
RETAIN FOR FUTURE REFERENCE.

## **The Audiobahn Way**

To bring the product to market that excites the consumer through sound and vision from an orientation of integrity and customer service. We make you look as good as you sound. We strive to take car audio to an extreme the world has never seen, and a world that never stops evolving.

Audiobahn was established in 1997 with one long-term goal in mind, "Build it Bigger, Badder, & Better, and the people will take notice!" We back this statement with an engineering team that has brought home several Innovations, Design & Engineering Showcase Awards, and a marketing team from around the world that spends countless hours developing our no compromise products to satisfy the most discriminating enthusiasts.

Our global manufacturing facilities feature ISO9002 ratings (the highest level of quality control awarded in the electronics manufacturing industry), fully robotic assembly lines and a state of the art, California based R & D laboratory.

Our Technical Department and entire staff look to strive above and beyond the rest of the pack by going that extra mile to help you out. Whether you happen to be a veteran competitor, or a beginner car audio enthusiast who does not know a voice coil from a spider. We are all her to help you get the best system you can with what you have.

Judge for yourself, and remember what it's all about, "If it's not Bigger, Badder & Better, it's not Audiobahn." If audio is your life, Audiobahn is the brand for you! We make you look as good as you sound. People never stop trying to get the best product, so we will never stop making it.

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Dear Customer,

Congratulations on your purchase of the worlds finest brand of car audio products. Here at Audiobahn Inc. we are devoted to making our musical reproduction the vert best, and we are pleased you have chosen our product. Through years of engineering expertise, hand craftsmanship, and critical testing procedures, we have created a wide range of products that reproduce music with all the clarity and richness you deserve.

For maximum performance we recommend you have your Audiobahn product installed by an Authorized Audiobahn Dealer, as we provide specialized training through our Audiobahn Installer Training Programs. Please read your warranty, keep your receipt, and original carton for possible future use.

To get a free brochure on Audiobahn products in the US call (714) 452-1476 or e-mail us at [sales@audiobahn.com](mailto:sales@audiobahn.com).

## WARNING

Continuous exposure to sound pressure levels over 100dB may cause permanent hearing loss. High powered autosound systems may produce sound pressure levels well over 135dB. Need we say more! Use common sense.

If after reading this manual you still have questions regarding your product, we recommend that you see your nearest Audiobahn Dealer. A list of Authorized Audiobahn Dealers can be found on our web page. If you need further assistance, feel free to call us at (714) 452-1476 and ask for the Technical Department. Be sure to have the model number, date of purchase, and invoice number available when you call.

The model number can be located on the outside of the carton. Record this in the space provided below along with the date of purchase. It is a good idea to keep your receipt with this as you will need it in the case of needing a warranty, repair service or exchange.

Date of Purchase: \_\_\_\_\_ Model Number: \_\_\_\_\_

Because of the variation in the process, we developed the ABD40J to help restore the low frequencies lost during the process, but the acoustics of various environments are different.

Sweep control allows you to select a center frequency (the frequency most affected) between 27Hz - 63Hz

Width control then allows you to control the range of other filters centered on the frequency Sweep.

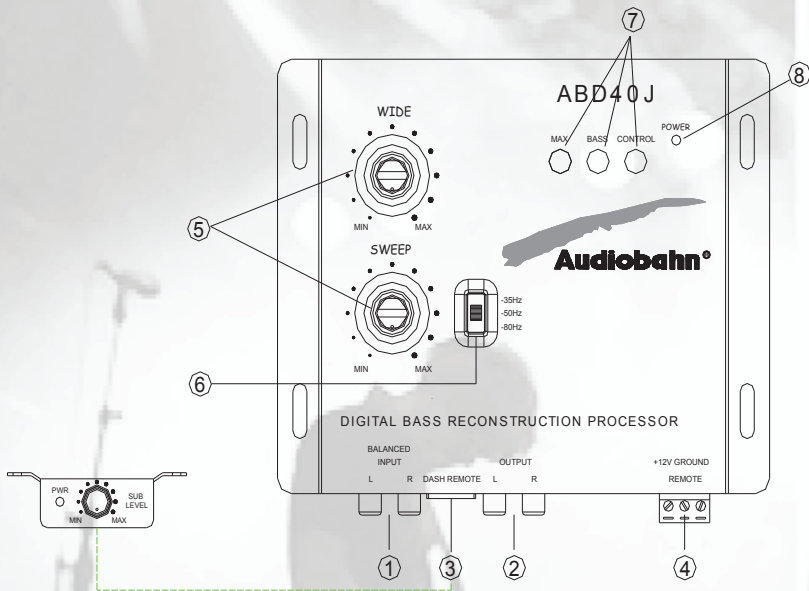
Bass Processor: Contains circuitry that accurately recreates low frequency information back into the signal.

L.E.D. Indicators: The three L.E.D. indicators flash when the low frequency equalization circuit is activated and with increased Sound Pressure Level.

Remote Mount Control: This is a wired level control that allows the user to adjust the processor from a remote location.

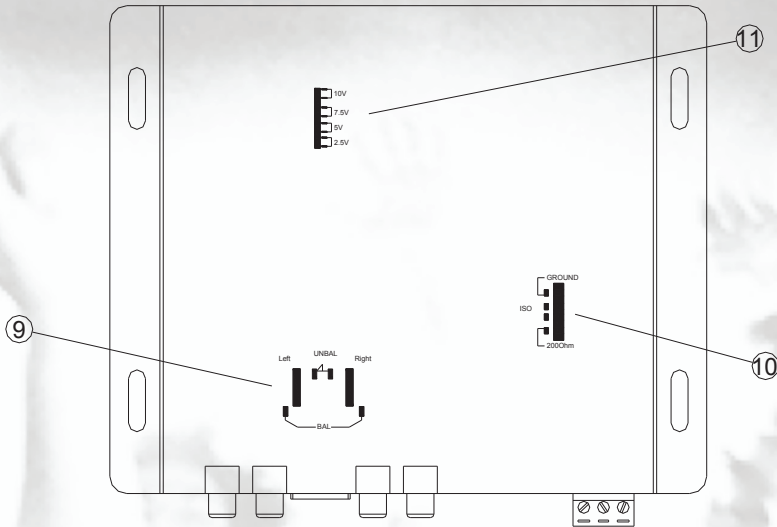
## Specifications

Maximum Input Level _____	15V rms
Maximum Output Level _____	13.5V peak
Frequency Response _____	10Hz-100kHz, + /-1dB
Total Harmonic Distortion _____	0.003%
Radio Signal to Noise _____	130 dB
Noise rejection of balanced input _____	> 60 dB
Input Impedance _____	10Kohm
Output impedance _____	150 ohm
Power Source _____	PWM
Power Extraction _____	150mA
Recommended Fuse _____	1 Amp

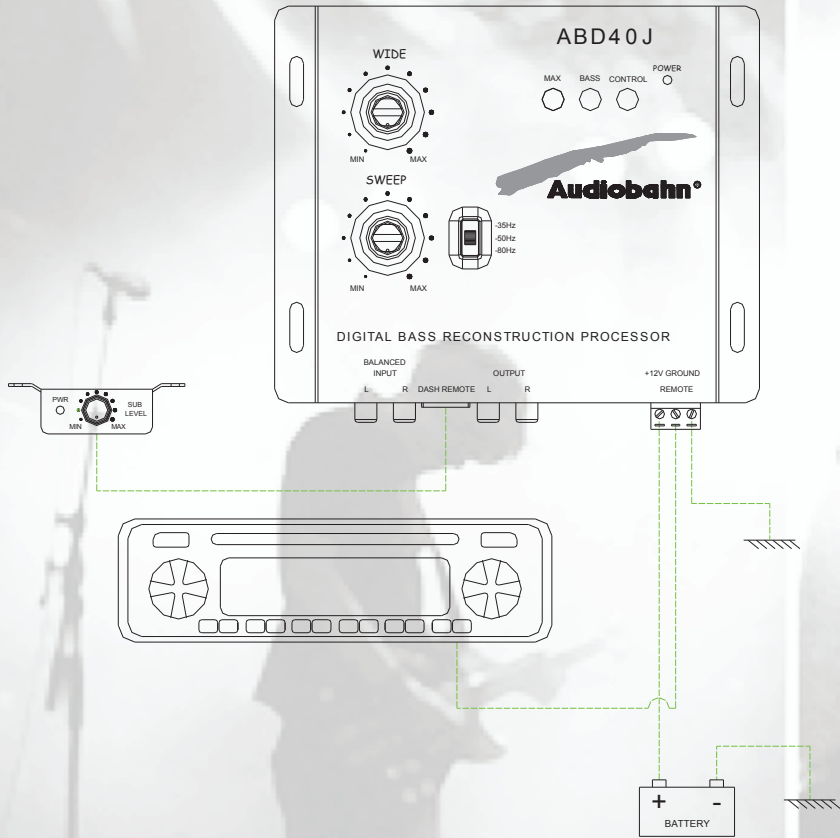


1. **Balanced Input:** Low Input is used to balance the input circuit to help minimize noise. They are designed to handle high voltage signals up to 15 volts.
2. **Outputs:** RCA connectors must be connected to the next component after the bass processor, like a crossover, equalizer or amplifier. Remember the bass processor must be connected before a crossover.
3. **Remote Control.**
4. **Power connector**
5. **Controls:** These two knobs control the functions of the Bass processor features.
  - SWEEP knob allows to choose the desired center frequency.
  - WIDE knob adjusts the frequency range of low impact processor.
6. **The PFM subsonic filter switch:** Bass Processor uses a PFM subsonic filter switch that will helps the speaker control and manage the power amplifier. This switch comes with three selections 35Hz/50Hz/80Hz frequency. In most programming systems is 35Hz, if you want to further protect your speaker system, try a higher frequency. Often, higher frequency sounds louder and clearer.
7. **Maximize Bass Indicator:** All three LED indicators flash when the maximization of the lower circuit is activated.
8. **The L.E.D. indicates when the unit is on.**





9. Ground input: For most systems you can leave this jumper in the balanced position, for some systems, the power source can find a ground through the RCA connectors. In this case, change the jumpers to the UNBALANCED position.
10. Isolation of jumpers: Occasionally the alternator noise may appear on a system because of the power supply and amplifier different use. Switch the jumper.  
NOTE: Make sure your system is off before you move these jumpers.
11. Controls Jumpers: Not all systems are designed equal. Some are designed strictly for SPL (sound pressure level), low-maximizer circuit may increase or decrease the voltage signal restoration circuit features. Depending on your system, you can choose to change these jumpers to a setting higher or lower to maximize the output of and protect your speakers.



**B + (12V):** Connect the red wire to the car battery or other power source.

**REMOTE:** Connect the orange cable to the remote trigger cable (12V DC) of the car or stereo equalizer.

**GND:** Connect the black wire to the chassis for grounding.



## TROUBLESHOOTING GUIDE

If the unit does not light up or the LED indicator light does nothing check the following:

- 1) Check to make sure the +B and GND are not reversed.
- 2) Check that all cables are connected properly and have adequate power (11-16 volts).
- 3) Check that the fuse is intact.

If you experience high or low volume audible distortion output:

- 4) Check that the input and output levels are set correctly.
- 5) Check the crossover, make sure it is correct. For systems of high "Q", set 1 octave or down.

If you experience noise of the machine:

- 6) Verify that the GND connection is secure, the conductor (cable) is not too thin and unnecessarily long.
- 7) Check that the cable +B is not too thin and unnecessarily long.
- 8) Change the source for output.

Investigate the layout of your automobile thoroughly before drilling or cutting any holes. Take care when you work near gas tanks, gas lines, hydraulic lines, and electrical wiring. Do not use the power amplifier unmounted. Attach the system securely to the automobile to prevent damage, particularly in the event of an accident. Do not mount the system so that the wire connections are unprotected or are subject to pinching or damage from nearby objects.

The +12V DC power wire must be fused at the battery positive terminal connection. Before making or breaking power connections at the system power terminals, disconnect the +12V wire at the battery end. Confirm your radio/head unit and/or other equipment is turned off while connecting the input jacks and speaker terminals. If you need to replace the power fuse, replace it only with a fuse identical to that supplied with the system. Using a fuse of a different type or rating may result in damage to this system which is not covered by the warranty.

## Disclaimer

Specifications are subject to change without notice.  
For the most updated Specifications call Audiobahn,  
your local Authorized Audiobahn Dealer,  
or check the Audiobahn web site.

[www.audiobahn.com](http://www.audiobahn.com)

## Audiobahn Consumer Product Warranty Policy

Audiobahn products are manufactured with the highest quality components and some of the most advanced technology available. Because of this we recommend that you have your new products installed by an **Authorized Audiobahn Dealer**. (A list of Authorized Audiobahn Dealers can be found on our web page).

**Warranty Period:** One year from the original date of purchase.

**Warranty Coverage:** This warranty covers manufacturer defects only. The warranty is applicable to the original purchaser, and is non-transferable. You must provide a receipt from an **Authorized Audiobahn Dealer** that shows the location of purchase, price paid, and date of purchase.

(Products purchased by consumers from an **Authorized Audiobahn Dealer** outside the United States are covered only by the Distributor of that specific country and are not covered by **Audiobahn**).

### NOTES:

Complete subwoofer enclosures (**Audiobahn** will replace defective subwoofers, plexiglass, or neon only. Do not send the entire enclosure, unless the enclosure is defective itself. You must receive prior authorization and an RA# before sending in any complete enclosure).

**AUDIOBAHN DOES NOT WARRANTY ANY PRODUCTS NOT PURCHASED THROUGH AN AUTHORIZED DEALER.**

(A list of Authorized Audiobahn Dealers can be found on our web page).

### AUDIOBAHN WARRANTIES DO NOT COVER THE FOLLOWING:

- Any product not purchased from an **Authorized Audiobahn Dealer** (including Internet dealers)
- Damage caused by abuse, misuse, accident, water / flood, or theft (including any cosmetic damage to the body of the product)
- Damage caused by improper installation
- Any cost or expense related to removal or reinstallation
- Any unauthorized services
- Any product that has the serial number removed, altered, or defaced
- Subsequent damage to any other components
- Pinched, cut, or stripped wires / terminals
- Any product that is new, and/or found to be in working condition
- L.E.D. indicators on electronics (**Audiobahn** will only replace L.E.D.(s) found to be defective at the time of purchase)

How to receive warranty service: Contact your local **Authorized Audiobahn Dealer**, or call **Audiobahn** at **(714) 452.1476** between the hours of 9:00AM and 5:00PM PST.

If you are having problems with your system, we recommend you check the product carefully and thoroughly to confirm that the product truly has a manufacturer defect; as opposed to abuse, or other components in the system caused the failure. This might include having an **Authorized Audiobahn Dealer** look at the product to confirm the source of the problem. Any product found to have a manufacturer defect will be replaced with a new piece of the same or similar model, or repaired at the discretion of **Audiobahn**. Any product found to have no manufacturer defect will be returned to the sender at their cost.

**You must acquire a Return Authorization Number (#) prior to returning ANY product to Audiobahn.** That Return Authorization Number (RA#) must be prominently and clearly marked on the outside of the shipping carton, or product delivery will be refused (no exceptions will be made).

Please note: All shipping and handling (to and from) charges will be the sole responsibility of the consumer.

Please record and keep your Return Authorization Number (RA#) in the event that further communication is required.

Return Authorization Number (RA#):

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Date product was sent:

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## **Contact Information**

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Audiobahn Headquarters  
7050 Village Drive Bldg. G  
Buena Park, CA 90621  
Phone (714) 452.1476 Fax (888) 880.8469  
Pacific Coast Time: 9am - 5pm Mon. - Fri.  
[tech@audiobahn.com](mailto:tech@audiobahn.com)

# Audiobahn

7050 Village Drive, Bldg G  
Buena Park, CA 90621

714-452-1476 office  
888-880-8469 fax

info@audiobahn.com

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